



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

JAN 28 2002

DOT-E 8239
(FIFTH REVISION)

EXPIRATION DATE: December 31, 2003

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Imaging & Sensing Technology Corporation
Horseheads, New York
2. PURPOSE AND LIMITATION:
 - a. This exemption authorizes the use of non-DOT specification containers for the transportation in commerce of Boron trifluoride, compressed. This exemption provides no relief from any Hazardous Materials Regulations (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.101 Column (9)(a) and (b) in that the material in paragraph 6 is forbidden when transported by passenger and cargo aircraft except as specified herein; and § 173.302 in that a non-DOT specification cylinder is not authorized except as specified herein; and § 175.3.
5. BASIS: This exemption is based on the application of Imaging & Sensing Technology Corporation dated December 31, 2001, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

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Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identi- fication Number	Packing Group
Boron trifluoride, compressed	2.3	UN1008	N/A

7. SAFETY CONTROL MEASURES: Packaging prescribed is a radiation detection system having a non-DOT specification metal pressure envelope with welded or soldered joints as described in Imaging & Sensing Technology Corporation's application of June 29, 1979, on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA).
- a. Each envelope must be made with a burst pressure of at least 6 times the filling pressure. The maximum filling pressure must be 35 psig.
- b. The volume of each envelope is limited by the equation:
- $$V = \frac{1050}{P}; \quad \text{Where } V = \text{Volume in cubic inches} \\ P = \text{Filling pressure in psig}$$
- c. The package must be shipped in strong outside packagings complying with § 173.301(k). The completed package must be able to withstand a six-foot drop onto an unyielding surface without leakage of contents.
8. SPECIAL PROVISIONS:
- a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.
- b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, passenger-carrying aircraft, and cargo aircraft only.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper

must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

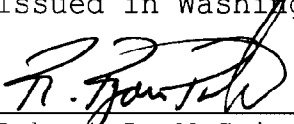
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:



for Robert A. McGuire
Associate Administrator
for Hazardous Materials Safety

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(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

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Copies of this exemption may be obtained by accessing the Hazardous Materials Safety Homepage at <http://hazmat.dot.gov/exemptions> Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: AM